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► Imaging spectrometer/camera having convex grating

US Pat. 6,100,974 - Filed Sep 15, 1998 - Issued Aug 3, 2000
- California Institute of Technology

In many applications, including remote sensing for space and terrestrial exploration, it is desirable to measure incoming radiation in narrow spectral ...

patents.google.com

Instrument and method for X-ray diffraction fluorescence, and ...

US Pat. 7,798,726 - Filed Feb 14, 2007 - Issued Sep 14, 2010
- University of Maryland, Baltimore County

23 in front of the XRD/XRF instrument window for analysis, such as is shown by way of ... for space exploration applications of the XRD/XRF instrument 100, ...

patents.google.com

Surface enhanced Raman spectroscopic nano-imaging probe and uses ...

US Pat. 7,256,866 - Filed Jul 21, 2005 - Issued Aug 14, 2007
- University of Maryland at Baltimore County

Recently, surface enhanced Raman spectroscopy (SERS) also has been employed for ... the detected Raman scattered radiation as a Raman spectral image. ...

patents.google.com

Microchannel plate with segmented mounting pads

US Pat. App. 11/217,873 - Filed Sep 1, 2005

[0005] MicroChannel plates were originally developed for image ... Mass spectrometers with parts per billion analysis capabilities only function when ...

patents.google.com

OPTICAL PROBE PREFERABLY FOR SPECTROMETRIC ANALYSES

US Pat. App. 12/563,511 - Filed Aug 13, 2010

BACKGROUND OF THE INVENTION [0003] In space applications, such as, for example, in missions for carrying out exploration on the planet Mars, vehicles for ...

patents.google.com

PREFERABLY MINIATURIZED OPTICAL TRANSFER DEVICE

US Pat. App. 12/563,382 - Filed Aug 13, 2010

BACKGROUND OF THE INVENTION [0003] In space applications, ... for example, by a spectrometer (not illustrated) for carrying out a stratigraphic analysis. ...

patents.google.com

Hyper-spectral imaging methods and devices

US Pat. App. 11/075,256 - Filed Mar 7, 2006

[0112] fast local-orthogonal component analysis algorithm for quick data exploration [0113] Advantages of the present invention include, but not limited to ...

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